



August 21, 2008  
911-06-001-DGM:dg

TO: Distribution

FROM: David Morris

SUBJECT: August 2008 Interplanetary Network Customer Forum (INCF) Minutes

The following are the Minutes of the NASA/JPL Deep Space Network (DSN) Interplanetary Network Customer Forum (INCF) Meeting held at JPL on August 21, 2008. The purpose of this forum is to bring together current and future customers of Deep Space Network (DSN) with DSN Managers to communicate current and future plans and share concerns.

These minutes do not attempt to replicate the presentation material. The presentations in the bound handout book given at the INCF Meeting have been posted on the RAPS August 2008 INCF webpage at the following URL: <http://rapweb.jpl.nasa.gov/RAR-RedAug2008.html> Corrections or updated versions of the presenters' materials are incorporated in the INCF presentations document. The minutes attempt to reflect discussions and any action items identified during the meeting.

The Resource Allocation Review is responsible for reviewing new or changed requirements, adopting recommendations to reduce periods of heavy contention, and for controlling changes to mission and asset requirements. It addressed updated project support requirements and proposed antenna downtime in 2009, 2010, and 2011. Specific periods of oversubscription are addressed with recommended changes to support. The presentation attachment is identical to what was presented.

### **Agenda**

1. Welcome and Introduction.....D. Morris
2. Conflict Resolution .....D. Morris
3. Presentation:
  - Spitzer Update.....B. Kahr
4. DSN Resource Allocation Team .....E. Martinez
  - Midrange Status
  - DSS-24 Painting/Downtime Status
  - Resource Allocation Forecast – July 2009 - 2011
  - Projects Responses.....Projects
  - Discussion / Decisions .....All
5. New Action Items & Summary.....D. Morris

### **Customer Forum Representatives**

D. Morris introduced Customer Forum representatives and thanked the mission representatives and schedulers for attending the INCF. The following Customer Forum members or their representatives attended:

A. Andujo	W. Hodgins	C. Ward
B. Arroyo	J. Hunter	K. Yetter
C. Bixenman	J. Jai	E. Young
W. Blume	B. Kahr	K. Zamora
S. Chhan	A. Kniepkamp	
D. Dillard	E. Martinez	
L. Efron	E. Pereira	
R. Espinueva	D. Seal	
L. Fairley	B. Soto	
J. Hall	P. Tay	
C. Hernandez	S. Waldeherr	

### **Spitzer Presentation – B. Kahr**

B. Kahr spoke to Spitzer which is celebrating five year anniversary.

- April 2009 it is estimated that cryogen will be depleted.
- Beginning October 28, 2008 Spitzer will need to array antennas to maintain a 2.2 MB data rate.
- During the period of October 17, 2008 – April 18, 2009 will be the final period of cold observation for the mission. The prime mission ends May 1, 2009. Spitzer is requesting priority consideration during this time frame.
- The estimated date for cryogen depletion is in April 2009

### **Mid-Range – E. Martinez**

The Multimission Integrated Schedule (MIS) is currently delayed in delivery. Weeks 49 – 50, was due 7/11/2008, delivered 8/22/2008 (6 weeks late). Weeks 51 – 52 has not been delivered, was due 7/28/2008.

MDAPT offered RAP team to consider taking over Multimission Integrated Schedule (MIS). No delivery date was offered.

### **DSS-24 Painting/Downtime**

- Kepler is forced to move due to maintenance conflict.
- Weather conditions do not allow KA-Band implementation.
- Goldstone is restricted to April – May, or September – November 2009, for painting.
- DSS-14 grouting is scheduled for November 21 – 26, supports have agreed to move or delete for that time frame.
- SPC 10 G91 2400V Switch Gear Electrical Maintenance requires the entire complex to be powerless, scheduled for October 1, 1730-0330 UTC.
- SPC-10 Apollo Tie-Line Electrical Maintenance requires Apollo and Echo to be

powerless; this task is scheduled for early December during daylight hours.

### **Resource Contention Summary – E. Martinez**

The Events, Recommendations, and Analysis were presented to the attendees for approval of the proposed downtimes listed below:

#### **2009 Weeks**

##### **July**

##### **Weeks 27 – 31**

For the remainder of 2009, Mars Program action plan will address all Mars missions. Recommendations approved except for MRO and M01O which fall under Mars program action plan and will be negotiated in mid-range.

##### **August**

##### **Weeks 32 – 35**

Recommendations approved except for MRO and M01O which fall under Mars program action plan and will be negotiated in mid-range.

##### **September**

##### **Weeks 36 – 39**

MRO, MEX and M01O fall under Mars program action plan and will be negotiated in mid-range.

##### **October**

##### **Weeks 40 – 44**

DIFF concurs and is distributing its load within Canberra views.

MSL continues to work launch issues.

MRO, MEX and M01O fall under Mars program action plan and will be negotiated in mid-range.

##### **November**

##### **Weeks 45 – 48**

MRO and M01O fall under Mars program action plan and will be negotiated in mid-range.

##### **December**

##### **Weeks 49 – 53**

MRO and M01O fall under Mars program action plan and will be negotiated in mid-range.

#### **2010 Week**

##### **January**

##### **Weeks 01 – 04**

In 2010 the Mars Program action plan will address all Mars missions

DSS-34 is scheduled to return to service at the end of March. Cassini is asking to shift two weeks after DOY 026.

Based on new launch date Monthly Science may be affected, Kepler is reviewing their activities.

MRO and M01O fall under Mars program action plan and will be negotiated in mid-range.

## **February**

### **Weeks 05 – 08**

Kepler is reviewing their activities.

MRO and M01O fall under Mars program action plan and will be negotiated in mid-range.

## **March**

### **Weeks 09 – 12**

Kepler Narrabri is limited to DSN availability; DSN resources need to see if Narrabri and Kepler intersect.

MRO, MEX and M01O fall under Mars program action plan and will be negotiated in mid-range.

## **April**

### **Weeks 13 – 17**

Cassini would like DSS-14 downtime to end 1 to 2 weeks earlier.

MRO and M01O fall under Mars program action plan and will be negotiated in mid-range.

## **May**

### **Weeks 18 – 21**

MRO, MEX and M01O fall under Mars program action plan and will be negotiated in mid-range.

## **June**

### **Weeks 22 – 25**

MRO, MEX and M01O fall under Mars program action plan and will be negotiated in mid-range.

## **July**

### **Weeks 26 – 30**

MRO, MEX and M01O fall under Mars program action plan and will be negotiated in mid-range.

MSL surface Ops has a large 70M requirement which may impact STF, Mars and Cassini. These issues need to be worked out during mid-range negotiation.

## **August**

### **Weeks 31 – 34**

MRO and M01O fall under Mars program action plan and will be negotiated in mid-range.

## **September**

### **Weeks 35 – 39**

DSS-43 downtime causes additional impact and resources are severely constrained, if DSS-43 downtime is moved, recommendations will be void.

MRO, MEX and M01O fall under Mars program action plan and will be negotiated in mid-range.

Cassini concurs.

## **October**

### **Weeks 40 – 43**

CHDR concurs

MRO, MEX and M01O fall under Mars program action plan and will be negotiated in mid-range.

**November****Weeks 44 – 47**

DSS-43 downtime may move which will affect DIF.

MRO and M01O fall under Mars program action plan and will be negotiated in mid-range.

**December****Weeks 48 – 52**

MRO and M01O fall under Mars program action plan and will be negotiated in mid-range.

**2011 Weeks****January****Weeks 01 – 04**

In 2011 Mars Program action plan will address all Mars missions during mid-range negotiation.

CHDR concurs

**February****Weeks 05 – 08**

CHDR concurs

**March****Weeks 09 – 13**

CHDR concurs

**April****Weeks 14 – 17**

CHDR concurs

**May****Weeks 18 – 21**

MRO, MEX and M01O fall under Mars program action plan and will be negotiated in mid-range.

**June****Weeks 22 – 26**

MRO and M01O fall under Mars program action plan and will be negotiated in mid-range.

**August****Weeks 31 – 34**

All concur

**September****Weeks 35 – 39**

MRO, MSGR and MSL fall under Mars program action plan and will be negotiated in mid-range.

GRLA has been taken up as an action item and needs to be resolved.

GRLA has been taken up as an action item and needs to be resolved.

**October**

## **Weeks 40 – 43**

No recommendations

## **November**

### **Weeks 44 – 47**

No Recommendations

## **December**

### **Weeks 48 – 52**

MRO and MEX fall under Mars program action plan and will be negotiated in mid-range.

### **Action Items**

- 1) DSS-24 painting, where to move it.
- 2) DSS-34, shifting 2 weeks earlier in January 2010.
- 3) DSS-14 downtime extension.
- 4) 70M downtime and higher demand for support from Mars missions and Hartley 2 encounter.
- 5) GRAIL considering how resources will be allocated for GRAIL-A and GRAIL-B.

### **Closing Remarks – D. Morris**

D. Morris thanked everyone for his or her participation and cooperation.

All Resource Analysis Team (RAT) Recommendations for the above proposed downtimes and contention were accepted during and subsequent to the August 21, 2008 INCF. *Please refer to the final INCF Redbook Final V2.0 located on the RAPweb\**

### **Final INCF REDBOOK Version 2.0**

**The August 2008 INCF REDBOOK Final Version 2.0 has been modified to reflect the recommendations that were accepted and rejected by the Projects/Users:**

<http://rapweb.jpl.nasa.gov/RAR-RedAug2008.html>

**Note: Only the recommendation colored “**GREEN**” will be implemented on the RAP database.**